

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1-18. (Canceled).

19. (New) A radio base station apparatus comprising:
a fading correlation monitor that detects a fading
correlation of radio waves received through a plurality of
antenna elements;

a reception method selector that receives the radio waves
from the antenna elements and provides the radio waves to a
receiver selected in accordance with the detected fading
correlation;

a directional receiver that executes directional reception,
on the provided radio waves, only when the reception method
selector selects the directional receiver to receive the provided
radio waves;

a diversity receiver that executes diversity reception, on
the provided radio waves, only when the reception method selector
selects the diversity receiver to receive the provided radio
waves; and

a demodulator that demodulates a signal output by the receiver selected to receive the radio waves provided by the reception method selector, wherein:

the directional receiver creates directivity for the radio waves to increase the quality of the demodulated signal, and

the diversity receiver combines or selects a plurality of signal sequences within the radio waves to increase the quality of the demodulated signal.

20. (New) The radio base station apparatus of claim 19 wherein the reception method selector selects the directional receiver to receive the provided radio waves when the detected fading correlation is greater than a predetermined threshold value and selects the diversity receiver to receive the provided radio waves when the fading correlation is less than or equal to the predetermined threshold value.

21. (New) The radio base station apparatus of claim 19, further comprising:

a transmission method selector that receives a modulated signal and provides the modulated signal to a transmitter selected in accordance with the detected fading correlation;

a directional transmitter that executes directional transmission, on the provided modulated signal, through the antenna elements only when the transmission method selector selects the directional transmitter to transmit the provided modulated signal;

a diversity transmitter that executes diversity transmission, on the provided modulated signal, through the antenna elements only when the transmission method selector selects the diversity transmitter to transmit the provided modulated signal, wherein:

the directional transmitter creates directivity for the provided modulated signal using the antenna elements, and

the diversity transmitter combines or selects for transmission a plurality of signal sequences within the provided modulated signal.

22. (New) The radio base station apparatus of claim 21, wherein the transmission method selector selects the directional transmitter to transmit the provided modulated signal when the fading correlation is greater than a predetermined threshold value and selects the diversity transmitter to transmit the provided modulated signal when the fading correlation is less than or equal to the predetermined threshold value.

23. (New) The radio base station apparatus of claim 21, wherein, the diversity transmitter transmits at a lower transmission power than the directional transmitter.

24. (New) The radio base station apparatus of claim 19, wherein the fading correlation monitor estimates an angle spread of a signal received from a communicating party and detects the fading correlation with reference to the estimated angle spread.

25. (New) The radio base station apparatus of claim 19, wherein the fading correlation monitor calculates a fading correlation value and detects the fading correlation with reference to the calculated fading correlation value.

26. (New) A radio communication method comprising:
detecting a fading correlation of radio waves received through a plurality of antenna elements;
providing the received radio waves to a receiver selected in accordance with the detected fading correlation;
executing directional reception, on the provided radio waves, with a directional receiver only when the directional receiver is selected to receive the provided radio waves;

executing diversity reception, on the provided radio waves, with a diversity receiver only when the diversity receiver is selected to receive the provided radio waves; and

demodulating a signal output by the receiver selected to receive the provided radio waves, wherein:

executing directional reception creates directivity for the provided radio waves to increase the quality of the demodulated signal, and

executing diversity reception combines or selects a plurality of signal sequences within the provided radio waves to increase the quality of the demodulated signal.

27. (New) The radio communication method of claim 26, further comprising:

providing a modulated signal to a transmitter selected in accordance with the detected fading correlation;

executing directional transmission, for the provided modulated signal, through the antenna elements with a directional transmitter only when the directional transmitter is selected to transmit the provided modulated signal;

executing diversity transmission, for the provided modulated signal, through the antenna elements with a diversity transmitter

only when the diversity transmitter is selected to transmit the provided modulated signal, wherein:

the directional transmitter creates directivity for the provided modulated signal using the antenna elements, and

the diversity transmitter combines or selects for transmission a plurality of signal sequences within the provided modulated signal.